

Data File : VV008926.D  
Acq On : 14 Dec 2018 13:54  
Operator : SY/MD  
Sample : J6367-12  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
COL48

Quant Time: Dec 14 23:42:01 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis  
QLast Update : Fri Dec 14 23:39:04 2018  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.67  | 114  | 206942   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 8.90  | 117  | 189163   | 50.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.30 | 152  | 81155    | 50.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.32    | 65    | 54119    | 44.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 89.56%  |
| 7) Chloroethane-d5             | 1.57    | 69    | 39304    | 51.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 103.36% |
| 11) 1,1-Dichloroethene-d2      | 2.13    | 63    | 104356   | 36.56    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 73.12%  |
| 21) 2-Butanone-d5              | 3.93    | 46    | 83326    | 103.27   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 103.27% |
| 24) Chloroform-d               | 4.40    | 84    | 125235   | 48.57    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 97.14%  |
| 26) 1,2-Dichloroethane-d4      | 5.08    | 65    | 83199    | 50.65    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 101.30% |
| 32) Benzene-d6                 | 5.10    | 84    | 251205   | 49.28    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.56%  |
| 36) 1,2-Dichloropropane-d6     | 6.12    | 67    | 76421    | 49.89    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 99.78%  |
| 41) Toluene-d8                 | 7.36    | 98    | 232928   | 48.68    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 97.36%  |
| 43) trans-1,3-Dichloropropene- | 7.67    | 79    | 37119    | 47.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 95.56%  |
| 47) 2-Hexanone-d5              | 8.13    | 63    | 55105    | 97.20    | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 97.20%  |
| 57) 1,1,2,2-Tetrachloroethane- | 10.26   | 84    | 94901    | 47.99    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 95.98%  |
| 64) 1,2-Dichlorobenzene-d4     | 11.68   | 152   | 85419    | 51.03    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 102.06% |

#### Target Compounds

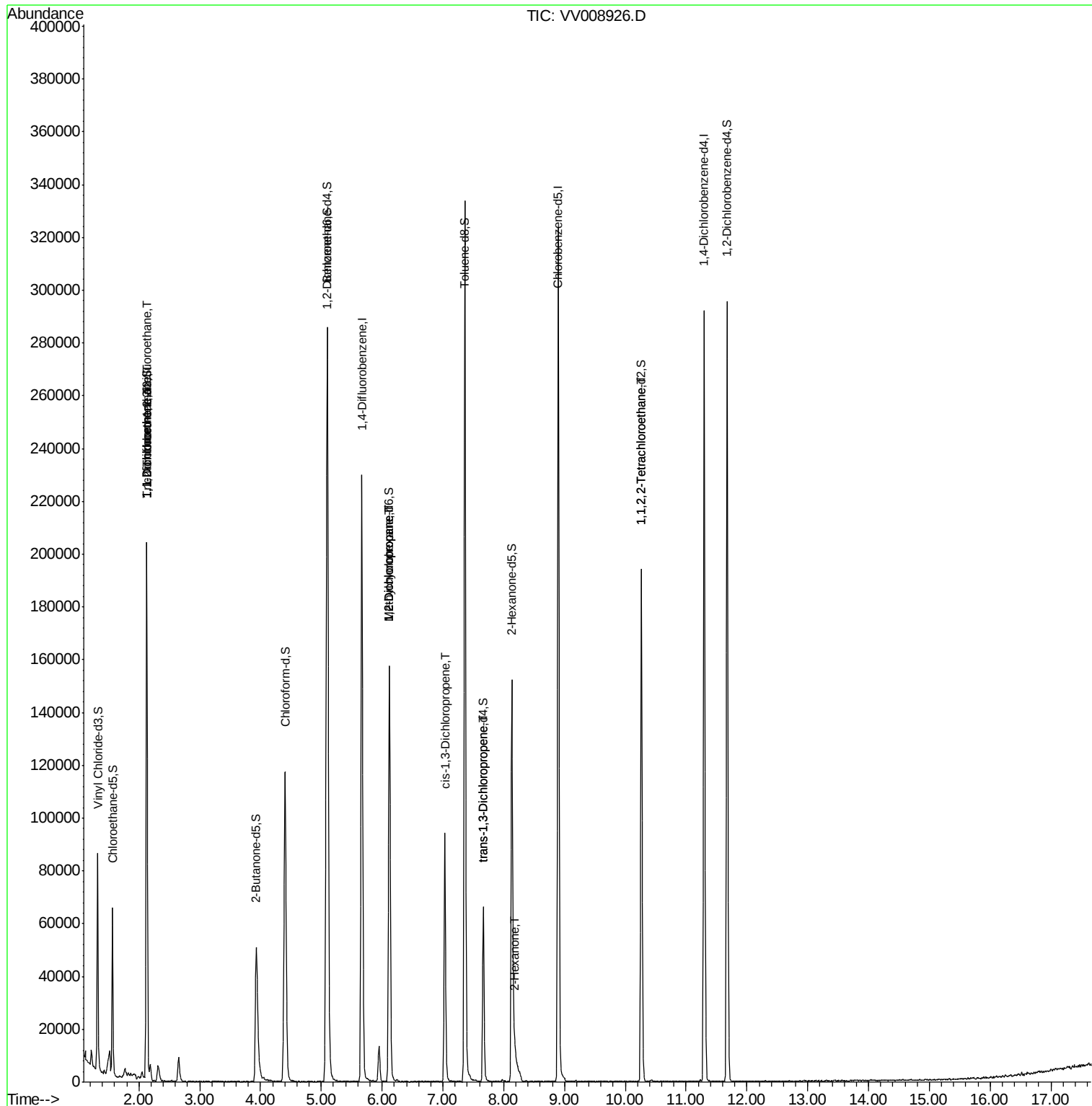
|                                |       |     |       |       | Qvalue |    |
|--------------------------------|-------|-----|-------|-------|--------|----|
| 9) Trichlorofluoromethane      | 2.13  | 101 | 981   | 0.425 | ug/L # | 37 |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.13  | 101 | 981   | 0.695 | ug/L # | 18 |
| 12) 1,1-Dichloroethene         | 2.13  | 96  | 888   | 0.691 | ug/L # | 1  |
| 35) Methylcyclohexane          | 6.12  | 83  | 19645 | 8.801 | ug/L # | 21 |
| 37) 1,2-Dichloropropane        | 6.12  | 63  | 8734  | 6.479 | ug/L # | 86 |
| 39) cis-1,3-Dichloropropene    | 7.03  | 75  | 2246  | 1.045 | ug/L # | 60 |
| 44) trans-1,3-Dichloropropene  | 7.67  | 75  | 1442  | 0.720 | ug/L   | 98 |
| 48) 2-Hexanone                 | 8.19  | 43  | 2950  | 2.274 | ug/L # | 88 |
| 58) 1,1,2,2-Tetrachloroethane  | 10.27 | 83  | 786   | 0.392 | ug/L # | 1  |

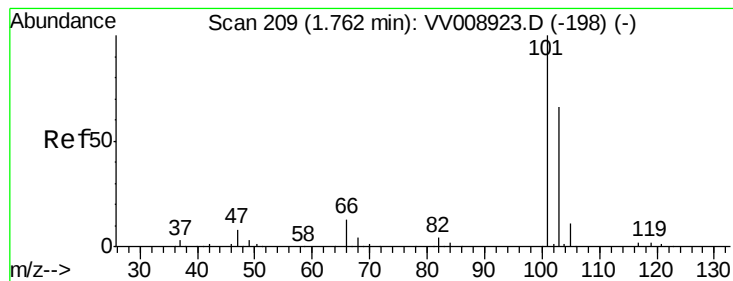
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#9

Trichlorofluoromethane

Concen: 0.425 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.37 min

Lab File: VV008926.D

Acq: 14 Dec 2018 13:54

Instrument :

MSVOA\_V

ClientSampleId :

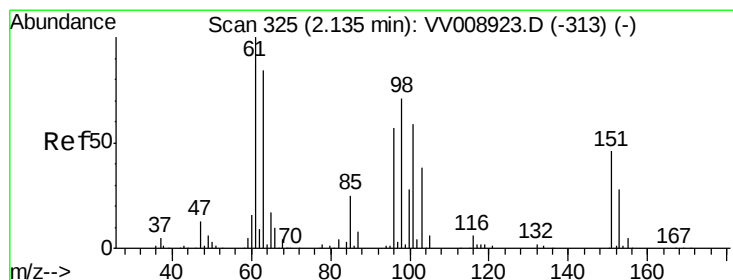
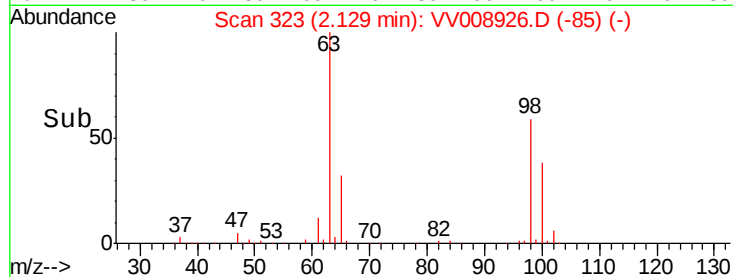
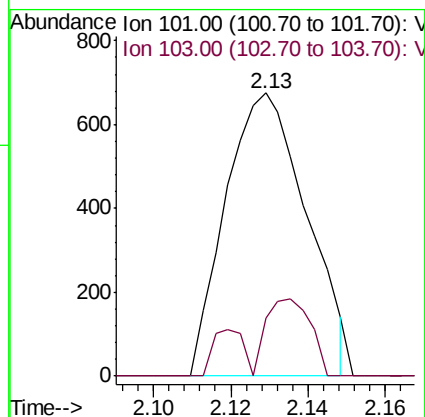
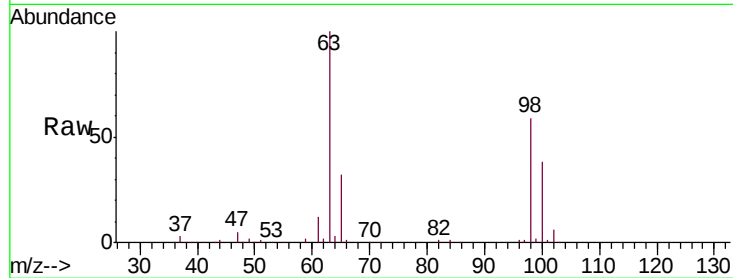
COL48

Tgt Ion:101 Resp: 981

Ion Ratio Lower Upper

101 100

103 15.2 51.5 77.3#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.695 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.01 min

Lab File: VV008926.D

Acq: 14 Dec 2018 13:54

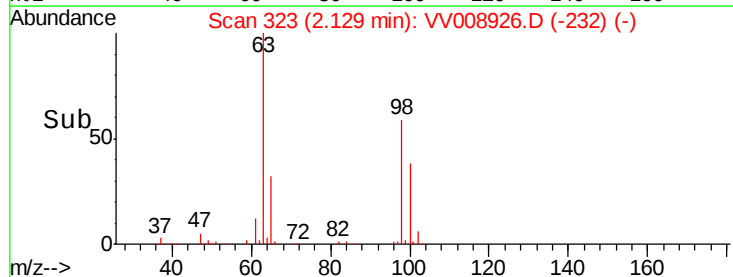
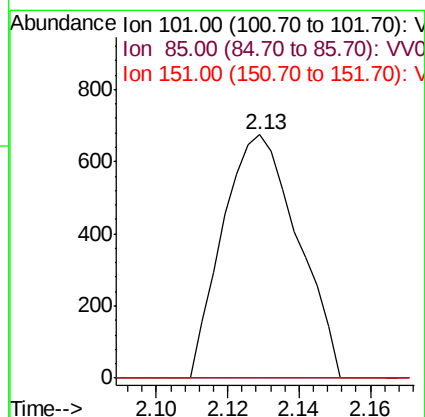
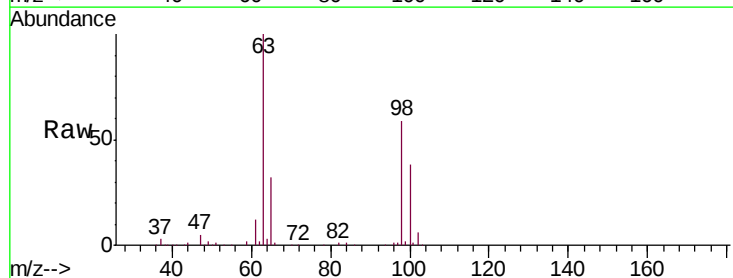
Tgt Ion:101 Resp: 981

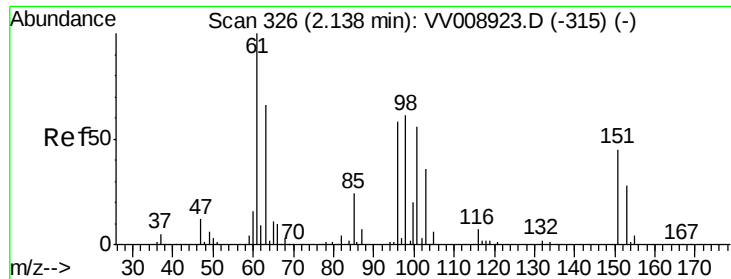
Ion Ratio Lower Upper

101 100

85 0.0 34.6 52.0#

151 0.0 63.8 95.8#

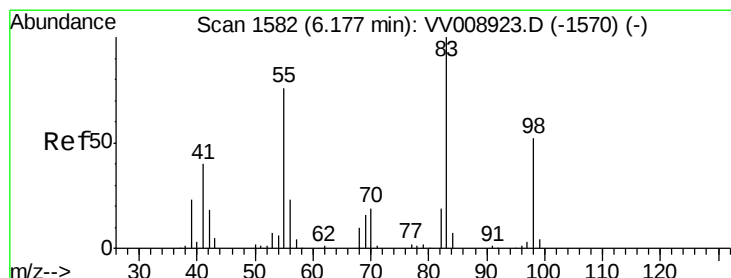
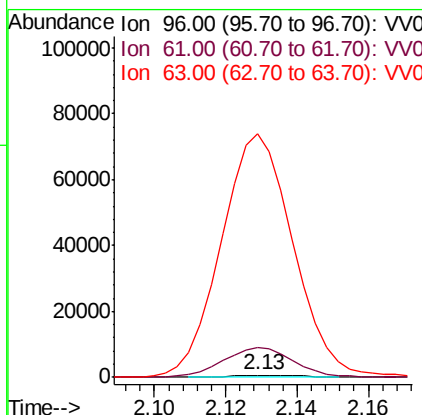
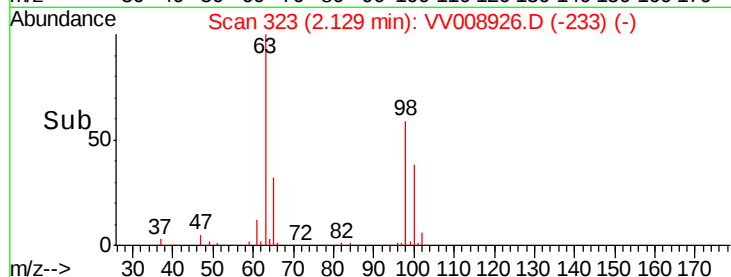
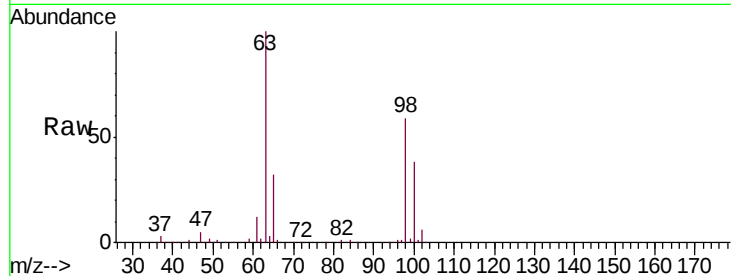




#12  
 1,1-Dichloroethene  
 Concen: 0.691 ug/L  
 RT: 2.13 min Scan# 323  
 Delta R.T. -0.01 min  
 Lab File: VV008926.D  
 Acq: 14 Dec 2018 13:54

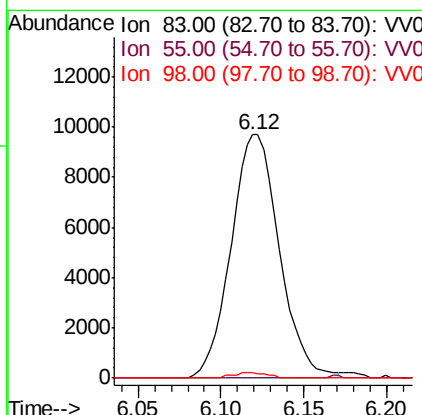
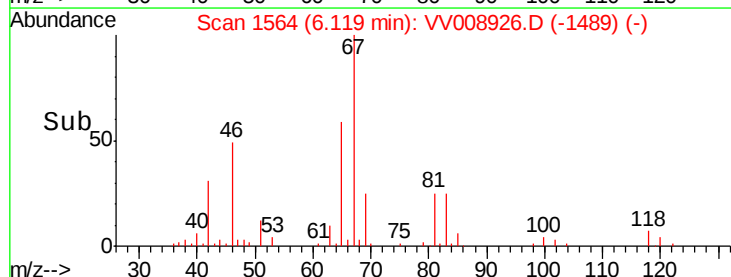
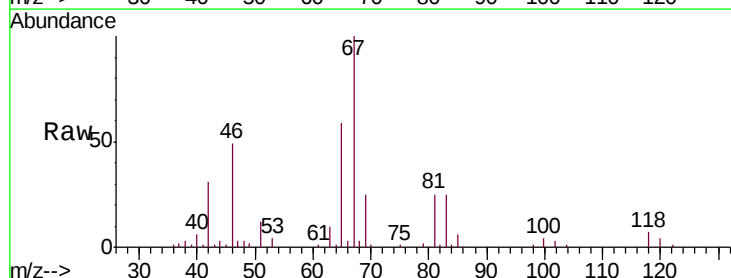
Instrument :  
 MSVOA\_V  
 ClientSampled :  
 COL48

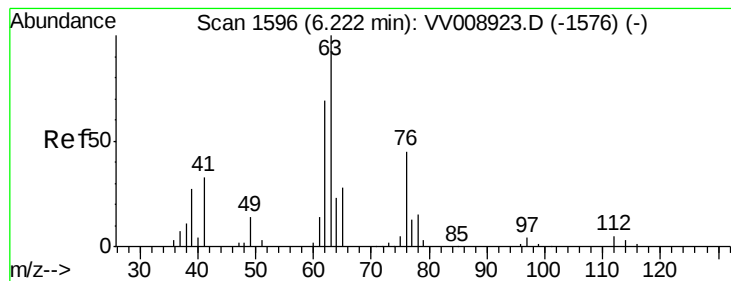
Tgt Ion: 96 Resp: 888  
 Ion Ratio Lower Upper  
 96 100  
 61 1391.9 119.1 221.3#  
 63 11356.1 96.0 178.2#



#35  
 Methylcyclohexane  
 Concen: 8.801 ug/L  
 RT: 6.12 min Scan# 1564  
 Delta R.T. -0.06 min  
 Lab File: VV008926.D  
 Acq: 14 Dec 2018 13:54

Tgt Ion: 83 Resp: 19645  
 Ion Ratio Lower Upper  
 83 100  
 55 0.2 57.8 86.8#  
 98 1.6 39.0 58.4#





#37

1,2-Dichloropropane

Concen: 6.479 ug/L

RT: 6.12 min Scan# 1564

Delta R.T. -0.10 min

Lab File: VV008926.D

Acq: 14 Dec 2018 13:54

Instrument :

MSVOA\_V

ClientSampleId :

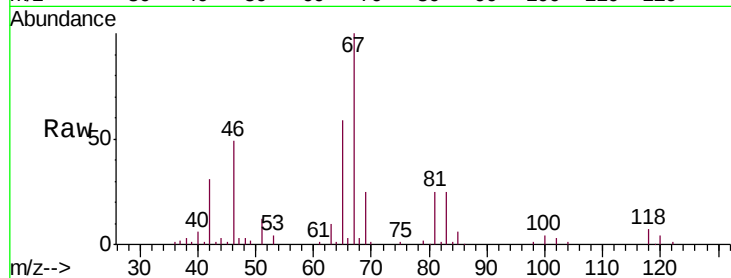
COL48

Tgt Ion: 63 Resp: 8734

Ion Ratio Lower Upper

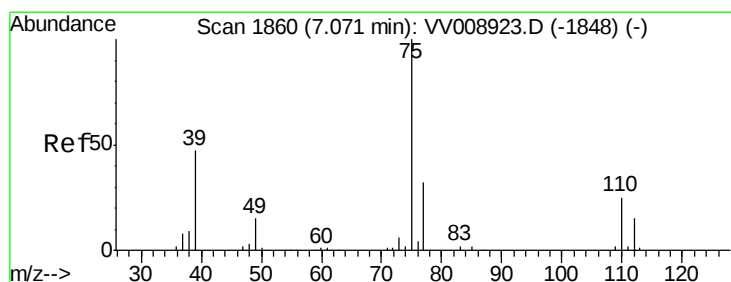
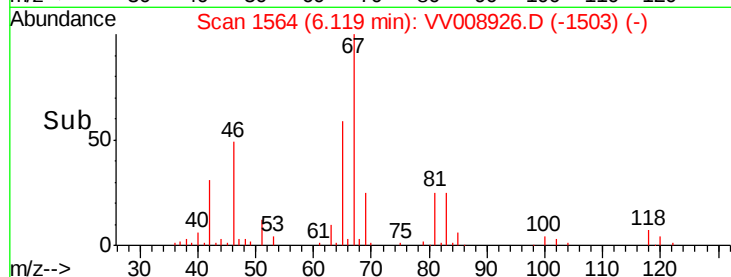
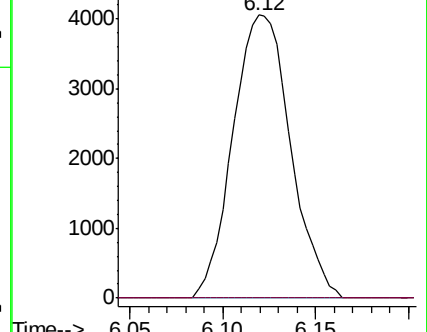
63 100

112 0.0 3.8 5.6#



Abundance Ion 63.00 (62.70 to 63.70): VV008923.D (-1576) (-)

Ion 112.00 (111.70 to 112.70): VV008923.D (-1576) (-)



#39

cis-1,3-Dichloropropene

Concen: 1.045 ug/L

RT: 7.03 min Scan# 1846

Delta R.T. -0.04 min

Lab File: VV008926.D

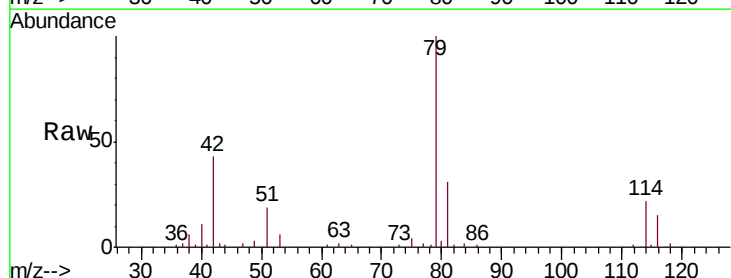
Acq: 14 Dec 2018 13:54

Tgt Ion: 75 Resp: 2246

Ion Ratio Lower Upper

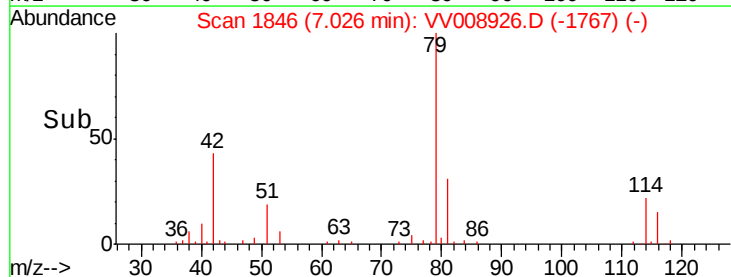
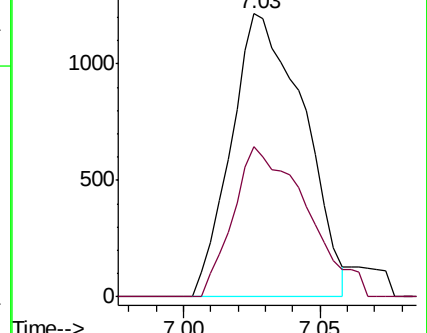
75 100

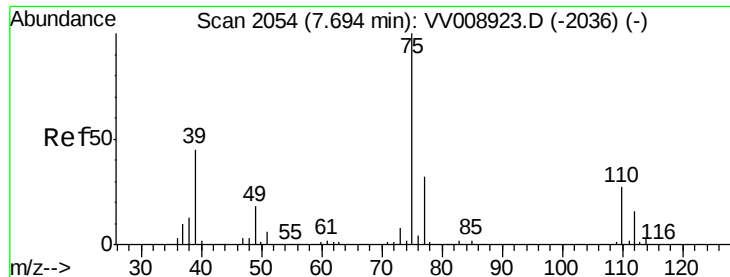
77 53.0 21.8 40.4#



Abundance Ion 75.00 (74.70 to 75.70): VV008923.D (-1848) (-)

Ion 77.00 (76.70 to 77.70): VV008923.D (-1848) (-)

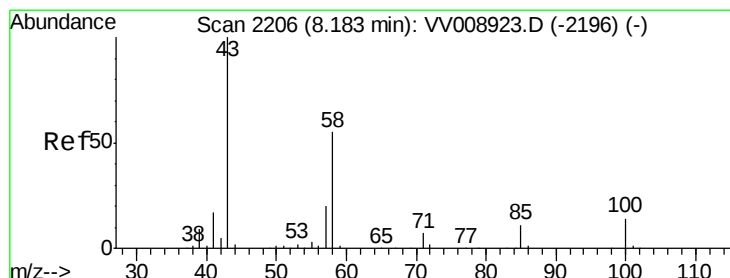
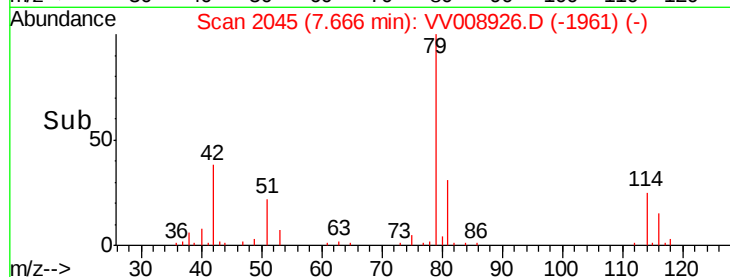
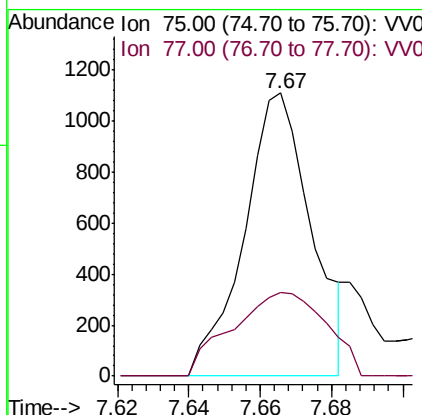
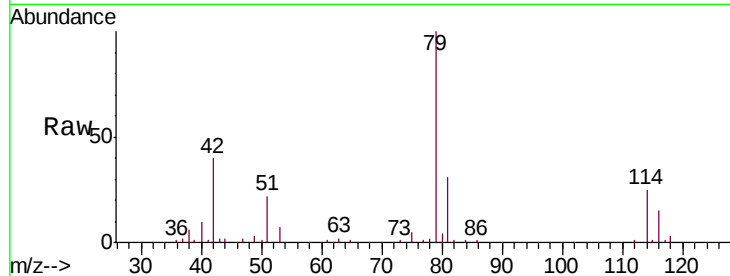




#44  
trans-1,3-Dichloropropene  
Concen: 0.720 ug/L  
RT: 7.67 min Scan# 2045  
Delta R.T. -0.03 min  
Lab File: VV008926.D  
Acq: 14 Dec 2018 13:54

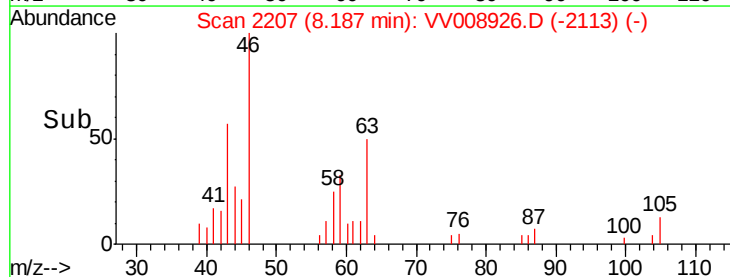
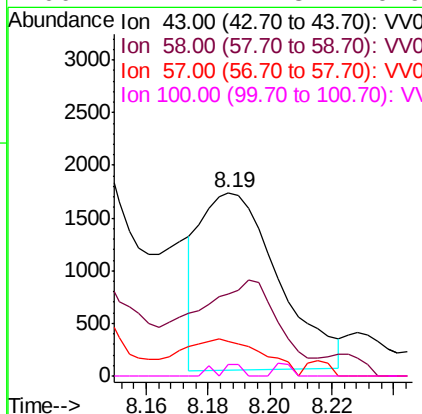
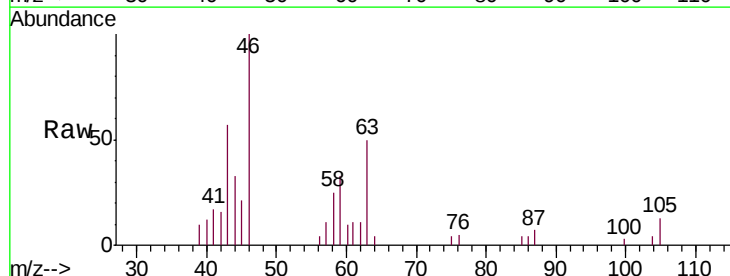
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MSVOA\_V  
ClientSampled :  
COL48

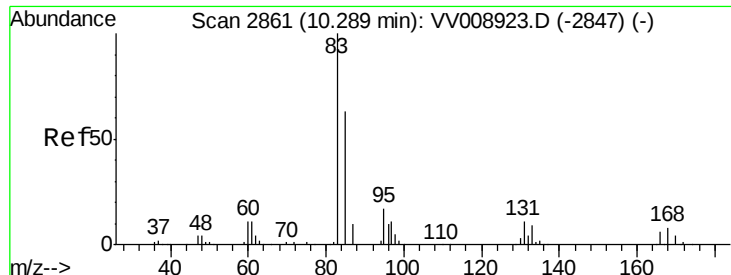
Tgt Ion: 75 Resp: 1442  
Ion Ratio Lower Upper  
75 100  
77 29.6 21.6 40.2



#48  
2-Hexanone  
Concen: 2.274 ug/L  
RT: 8.19 min Scan# 2207  
Delta R.T. 0.00 min  
Lab File: VV008926.D  
Acq: 14 Dec 2018 13:54

Tgt Ion: 43 Resp: 2950  
Ion Ratio Lower Upper  
43 100  
58 60.5 42.7 64.1  
57 21.8 15.7 23.5  
100 1.4 11.3 16.9#





#58

1,1,2,2-Tetrachloroethane

Concen: 0.392 ug/L

RT: 10.27 min Scan# 2855

Delta R.T. -0.02 min

Lab File: VV008926.D

Acq: 14 Dec 2018 13:54

Instrument :

MSVOA\_V

ClientSampleId :

COL48

Tgt Ion: 83 Resp: 786

Ion Ratio Lower Upper

83 100

85 152.0 45.3 84.1#

131 208.6 9.2 13.8#

